Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-12-21-02** **Date: 23-12-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub division, BBMP, Bangalore.
Project Name	:	Construction of RCC drains in S.C Colony Saraipalya cross road in Ward no.06 Byatarayanapura Sub division.
Agency	:	Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' main road, 3rd 'Y' Block, Rajajinagara, Bangalore.
Customer's Reference	:	BBMP/EE/BTP/WO/28/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-12-17
Sample ID No	:	2017-12-21-02/01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	22-12-17

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.72	–
2	Finess by Air permeablity method (m^2/kg, Min)	298.2	225m^2/kg, Min
3	Density (gm/cc)	3.14	–
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	295 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

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Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-12-21-02** **Date: 19-01-18**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub division, BBMP, Bangalore.
Project Name	:	Construction of RCC drains in S.C Colony Saraipalya cross road in Ward no.06 Byatarayanapura Sub division.
Agency	:	Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' main road, 3rd 'Y' Block, Rajajinagara, Bangalore.
Customer's Reference	:	BBMP/EE/BTP/WO/28/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-12-17
Sample ID No	:	2017-12-21-02/01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	22-12-17

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	55.5N/mm^2	Not less than 53 N/mm^2

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-12-21-02** **Date: 23-12-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub division, BBMP, Bangalore.
Project Name	:	Construction of RCC drains in S.C Colony Saraipalya cross road in Ward no.06 Byatarayanapura Sub division.
Agency	:	Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' main road, 3rd 'Y' Block, Rajajinagara, Bangalore.
Customer's Reference	:	BBMP/EE/BTP/WO/28/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	21-12-17
Sample ID No	:	2017-12-21-02/02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates)
		IS: 2386 :1963(Part - 1,3,4) RA2011
		IS 2386 Part 1: Particle Size and Shape
		IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
		IS 2386 Part 4: Mechanical Properties
Date of test	:	21-12-17

AS ward No 6

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	354	354	2.4	97.6	90-100
3	20 mm	5044	5398	36.0	64.0	30-70
4	10 mm	6968	12366	82.4	17.6	10-35
5	4.75 mm	2085	14451	96.3	3.7	0-5
6	Pan	549	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-12-21-02** **Date: 23-12-17**

Sample ID No : 2017-12-21-02/02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**12.5**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**10.1**	
3	Specific Gravity	**2.64**	_
4	Bulk Density(Loose) (Kg/l)	**1.47**	_
5	Bulk Density(Compacted) (Kg/l)	**1.54**	_
6	Water Absorption(%)	**0.28**	_

Note:

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Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-12-21-02** **Date: 23-12-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub division, BBMP, Bangalore.
Project Name	:	Construction of RCC drains in S.C Colony Saraipalya cross road in Ward no.06 Byatarayanapura Sub division.
Agency	:	Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' main road, 3rd 'Y' Block, Rajajinagara, Bangalore.
Customer Reference	:	BBMP/EE/BTP/WO/28/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-12-17
Sample ID No	:	2017-12-21-02/02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates)
		IS: 2386 :1963(Part - 1,3,4) RA2011
		IS 2386 Part 1: Particle Size and Shape
		IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
		IS 2386 Part 4: Mechanical Properties
Date of test	:	21-12-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	187	187	3.7	96.3	90-100
3	10 mm	2347	2534	50.7	49.3	25-55
4	4.75 mm	2285	4819	96.4	3.6	0-10
5	Pan	181	5000	100	0	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-12-21-02** **Date: 23-12-17**

Sample ID No : 2017-12-21-02/02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**10.7**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**11.1**	
3	Specific Gravity	**2.61**	_
4	Bulk Density(Loose) (Kg/l)	**1.51**	_
5	Bulk Density(Compacted) (Kg/l)	**1.57**	_
6	Water Absorption(%)	**0.31**	_
7	Aggregate crushing Value(%)	**23.1**	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	**20.5**	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

Note:

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-12-21-02** **Date: 23-12-17**

Customer : Assistant Executive Engineer, Byatarayanapura Sub division, BBMP, Bangalore.

Address : Byatarayanapura Sub division, BBMP, Bangalore.

Project Name : Construction of RCC drains in S.C Colony Saraipalya cross road in Ward no.06 Byatarayanapura Sub division.

Agency : Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' main road, 3rd 'Y' Block, Rajajinagara, Bangalore.

Customer's Reference : BBMP/EE/BTP/WO/28/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-12-17

Sample ID No : 2017-12-21-02/03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 21-12-17

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	98	98	9.8	90.2	90-100	90-100	90-100	95-100
3	2.36 mm	125	223	22.3	77.7	60-95	75-100	85-100	95-100
4	1.18 mm	182	405	40.5	59.5	30-70	55-90	75-100	90-100
5	600 micron	219	624	62.4	37.6	15-34	35-59	60-79	80-100
6	300 micron	204	828	82.8	17.2	5-20	8-30	12-40	15-50
7	150 micron	83	911	91.1	8.9	0-10	0-10	0-10	0-15
8	Pan	89	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

Ward no 6

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2017-12-21-02 Date: 23-12-17

Sample ID No : 2017-12-21-02/03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.72	–
2	Specific Gravity	2.58	–
3	Material finer than 75 micron(%)	7.1	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-12-21-02** **Date: 23-12-18**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub division, BBMP, Bangalore.
Project Name	:	Construction of RCC drains in S.C Colony Saraipalya cross road in Ward no.06 Byatarayanapura Sub division.
Agency	:	Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' main road, 3rd 'Y' Block, Rajajinagara, Bangalore.
Customer's Reference	:	BBMP/EE/BTP/WO/28/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-12-18
Sample ID No	:	2017-12-21-02/04
Sample Type	:	Indus
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	22-12-18

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Indus	Fe500	8	0.391	542	670	20.0%	Satisfactory	Satisfactory
2	Indus	Fe500	10	0.613	569	683	20.0%	Satisfactory	Satisfactory
3	Indus	Fe500	12	0.886	587	690	19.0%	Satisfactory	Satisfactory

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2017-12-26-05** **Date: 30-12-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub division, BBMP, Bangalore.
Project Name	:	Construction of RCC drains in S.C Colony Saraipalya cross road in Ward no.06 Byatarayanapura Sub division.
Agency	:	Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' main road, 3rd 'Y' Block, Rajajinagara, Bangalore.
Customer's Reference	:	BBMP/EE/BTP/WO/28/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-12-17
Sample ID No	:	2017-12-26-05/01
Sample Type /Size	:	Precast Cover Slab
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	26/12/2017

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.23	150.63	1.736	4444	97.9	22.0	20.5	25.6
2	Cover Slab-2	75.39	150.87	1.742	4463	96.8	21.7	20.2	25.2
3	Cover Slab-3	75.27	150.49	1.785	4449	99.3	22.3	20.8	25.9

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-01-08-05** **Date: 10/01/2018**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub division, BBMP, Bangalore.
Project Name	:	Construction of RCC drains in S.C Colony Saraipalya cross road in Ward no.06 Byatarayanapura Sub division.
Agency	:	Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' main road, 3rd 'Y' Block, Rajajinagara, Bangalore.
Customer's Reference	:	BBMP/EE/BTP/WO/28/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-01-18
Sample ID No	:	2018-01-08-05/01
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	10/01/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	03/01/2018	10/01/2018	149.28 X 150.34 X 151.37	22443	8.131	386.0	17.2	17.6
2	Drain Concrete	M20	03/01/2018	10/01/2018	150.61 X 150.71 X 151.04	22698	8.149	410.8	18.1	
3	Drain Concrete	M20	03/01/2018	10/01/2018	149.61 X 150.31 X 150.37	22488	8.201	391.3	17.4	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-01-08-05** **Date: 31/01/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub division, BBMP, Bangalore.

Address : Byatarayanapura Sub division, BBMP, Bangalore.

Project Name : Construction of RCC drains in S.C Colony Saraipalya cross road in Ward no.06 Byatarayanapura Sub division.

Agency : Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' main road, 3rd 'Y' Block, Rajajinagara, Bangalore.

Customer's Reference : BBMP/EE/BTP/WO/28/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 08-01-18

Sample ID No : 2018-01-08-05/02

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 31/01/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	03/01/2018	31/01/2018	150.22 X 150.98 X 150.49	22680	8.147	501.2	22.1	22.2
2	Drain Concrete	M20	03/01/2018	31/01/2018	150.47 X 151.32 X 150.64	22769	8.192	516.9	22.7	
3	Drain Concrete	M20	03/01/2018	31/01/2018	151.44 X 150.66 X 150.74	22816	8.164	499.7	21.9	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-01-08-05** **Date: 10/01/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub division, BBMP, Bangalore.

Address : Byatarayanapura Sub division, BBMP, Bangalore.

Project Name : Construction of RCC drains in S.C Colony Saraipalya cross road in Ward no.06 Byatarayanapura Sub division.

Agency : Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' main road, 3rd 'Y' Block, Rajajinagara, Bangalore.

Customer's Reference : BBMP/EE/BTP/WO/28/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 08-01-18

Sample ID No : 2018-01-08-05/03

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/01/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	03/01/2018	10/01/2018	149.34 X 151.97 X 150.78	22695	8.198	394.9	17.4	17.1
2	Drain Concrete	M20	03/01/2018	10/01/2018	149.72 X 151.31 X 151.79	22654	8.147	391.9	17.3	
3	Drain Concrete	M20	03/01/2018	10/01/2018	149.33 X 150.47 X 149.88	22470	8.138	370.7	16.5	

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-01-08-05** **Date: 31/01/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub division, BBMP, Bangalore.

Address : Byatarayanapura Sub division, BBMP, Bangalore.

Project Name : Construction of RCC drains in S.C Colony Saraipalya cross road in Ward no.06 Byatarayanapura Sub division.

Agency : Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' main road, 3rd 'Y' Block, Rajajinagara, Bangalore.

Customer's Reference : BBMP/EE/BTP/WO/28/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 08-01-18

Sample ID No : 2018-01-08-05/04

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 31/01/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	03/01/2018	31/01/2018	149.22 X 151.77 X 150.69	22647	8.214	514.1	22.7	22.6
2	Drain Concrete	M20	03/01/2018	31/01/2018	150.37 X 150.91 X 150.33	22692	8.272	524.2	23.1	
3	Drain Concrete	M20	03/01/2018	31/01/2018	150.47 X 150.55 X 149.17	22653	8.168	496.1	21.9	

Note:

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R KARTHIK RECHAN
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****End of Report****